International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

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REQUEST The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. Applicant's or agent's file reference (if desired) (12 characters maximum) TITLE OF INVENTION Box No. I POLYOLEFIN MEMBRANE WITH INTEGRALLY ASYMMETRICAL STRUCTURE AND PROCESS FOR PRODUCING SUCH **MEMBRANE** Box No. II **APPLICANT** This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. Telephone No. (0202) 324214 The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Facsimile No. (0202) 324224 Teleprinter No. Oehder Strasse 28 42289 Wuppertal Applicant's registration No. with the Office State (that is, country) of residence: State (that is, country) of nationality: Germany Germany all designated all designated States except the the United States the States indicated in the This person is applicant States United States of America of America only Supplemental Box for the purposes of: Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. This person is: The address must include postal code and name of country. The country of the address indicated in this applicant only Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) applicant and inventor KESSLER, Erich Breubergstrasse 23 inventor only (If this check-box 64739 Hochst i. Odw. is marked, do not fill in below.) Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: Germany Germany the States indicated in the This person is applicant for all designated all designated States except the United States the United States of America of America only Supplemental Box the purposes of: States Further applicants and/or (further) inventors are indicated on a continuation sheet. Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf of the agent agent common representative applicant(s) before the competent International Authorities as: Telephone No. Name and address: (Family name followed by given name; for a legal entity, full official (0202) 32 4213 designation. The address must include postal code and name of country.) FETT, Gunter CPW GmbH Facsimile No. Kasinostrasse 19-21 (0202) 32 4224 42103 Wuppertal Teleprinter No. DE. Agent's registration No. with the Office Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)						
If none of the following sub-boxes is used, this sheet should not be included in the request.						
Name and address: (Family name followed by given name; for a legal entity, full official design. The address must include postal code and name of country. The country of the address indicated is Box is the applicant's State (that is, country) of residence if no State of residence is indicated below. BATZILLA, Thomas Konigsberger Strasse 16 63927 Burgstadt	n this					
State (that is, country) of nationality: Germany State (that is, country)	Germany					
This person is applicant for the purposes of: all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designs. The address must include postal code and name of country. The country of the address indicated is. Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) WECHS, Friedbert Bayernstrasse 26 63939 Worth	n this					
State (that is, country) of nationality: State (that is, country) Germany	of residence: Germany					
This person is applicant for the purposes of: all designated all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) WIESE, Frank Oehderstrasse 23 B 42289 Wuppertal This person is: applicant only inventor inventor only (If this check-box is marked, do not fill in below.)						
	Applicant's registration No. with the Office					
State (that is, country) of nationality: Germany State (that is, country)	of residence: Germany					
This person is applicant for the purposes of: all designated the United States except the United States of America	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office						
State (that is, country) of nationality: State (that is, country)	of residence:					
This person is applicant for the purposes of: all designated all designated States except the United States of America the United States of America only Supplemental Box						
Further applicants and/or (further) inventors are indicated on another continuation sheet.						

Box	No. V	DESIGNATION OF STATE	S A	Aark ti	he applicable check-boxes below; a	t lea	st one	must be marked.
The following designations are hereby made under Rule 4.9(a):								
Regi	onal	Patent						
☒	AP	ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment						
\boxtimes	EA	desired, specify on dotted line) Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT						
\boxtimes	EP	European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal,						
Nati		RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)						
		atent (if other kind of protection o			· · · · · · · · · · · · · · · · · · ·	_		
	AE AG AL	United Arab Emirates Antigua and Barbuda Albania	\boxtimes	HU ID	Croatia Hungary Indonesia	$\overline{\boxtimes}$	PG PH	Oman Papua New Guinea Philippines
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\boxtimes	AZ BA	Azerbaijan Bosnia and Herzegovina		JP KE KG	Japan Kenya Kyrgyzstan	\boxtimes	RU SC	Russian Federation Seychelles
\boxtimes	BB BG BR	Barbados Bulgaria Brazil		KP KR	Democratic People's Republic of Korea Republic of Korea		SD SE SG	Sudan Sweden Singapore
	BY BZ CA	Belarus Belize Canada		KZ LC LK	Kazakhstan Saint Lucia Sri Lanka		SK SL SY	Slovakia Sierra LeoneSyrian Arab Republic
\boxtimes	CH &	& LI Switzerland and Liechtenstein China		LR LS LT	Liberia Lesotho Lithuania		TJ TM TN	Tajikistan Turkmenistan Tunisia
		Costa Rica	□ LU □ LV □ MA □ MD	LU LV	Luxembourg Latvia Morocco		TR TT	Turkey Trinidad and Tobago
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	DM DZ	Dominica Algeria	\boxtimes	MK	Madagascar The former Yugoslav Republic of Macedonia		UG US	Uganda United States of America
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	FI GB GD	FinlandUnited Kingdom Grenada Georgia		MZ NI	Mexico Mozambique Nicaragua		VN YU ZA	Viet Nam Serbia and Montenegro South Africa
	GH	Georgia Ghana Gambia		NO NZ	Norway New Zealand	X X	ZM ZW	Zambia Zimbabwe
Check-boxes reserved for designating States which have become party to the PCT after issuance of this sheet:								
⊠	VC	St. Vincent and the Grenadines		sc	Seychelles			
Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all								

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except the designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Box No. VI PRIORITY CLAIM							
The priority of the foll	owing earlier application	on(s) is hereby claimed:					
Filing date	Number		Where earlier application	on is:			
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office			
item (1) 24 January 2002	10202594.0	Germany					
item (2)							
item (3)							
item (4)							
item (5)							
Further priority cl	laims are indicated in the S	Supplemental Box.					
The receiving Office is a (only if the earlier appliance) identified above a	cation was filed with the	ransmit to the Internationa Office which for the purp	al Bureau a certified copy of oses of this international ap	f the earlier application(s) oplication is the receiving			
all items item (1) item (2) item (3) item (4) item (5) other, see Supplemental Box							
*Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):							
			••••••				
Box No. VII INTERNATIONAL SEARCHING AUTHORITY							
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA /							
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):							
Date (day/month/year)	Oate (day/month/year) Number Country (or regional Office)						
			· 				
Box No. VIII DECLAR	ATIONS						
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations							
Box No. VIII (i)	Declaration as to the identify of the inventor :						
Box No. VIII (ii)	Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :						
Box No. VIII (iii)	Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :						
Box No. VIII (iv)	Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America):						
Box No. VIII (v)	Declaration as to non-pre	ejudicial disclosures or exception	ons to lack of novelty:	:			

Box No. IX CHECK LIST; LANGUAGE OF FILING						
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the item(s) (mark the applicable check-boxes below and it right column the number of each item):					
request (including declaration sheets) : 4 description (excluding sequence listings and/or tables related thereto) : 35 claims : 4 abstract : 1 drawings : 5 Sub-total number of sheets : 49 sequence listings : tables related thereto : (for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below) : Total number of sheets : 49 (b) only in computer readable form	 ∫ fee calculation sheet ○ original separate power of attorney ⊘ original general power of attorney Copy of general power of attorney; reference refany: Statement explaining lack of signature □ priority document(s) identified in Box No. VI item(s):	as : as : andicate ational coart of : arked				
(Section 801(a)(i)) (i) sequence listings (ii) tables related thereto (c) also in computer readable form (Section 801(a)(ii)) (i) sequence listings (ii) tables related thereto Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the sequence listings tables related thereto sequence listings (additional copies to be indicated under item 9(ii), in right column)	in left column) additional copies including applicable, the copy for the purposes of international search under Rule 13ter (iii) together with relevant statement as to the copy or copies with the sequence list mentioned in left column 10. tables in computer readable form related to se listings (indicate type and number of carriers) (i) copy submitted for the purposes of international search under Section 802(b-quater) only (as part of the international application) (ii) (only where check-box (b)(ii) or (c)(ii) is not in left column) additional copies including applicable, the copy for the purposes of international search under Section 802(b-quater) together with relevant statement as to the incopy or copies with the tables mentioned in the copy for the purposes of international search under Section 802(b-quater) together with relevant statement as to the incopy or copies with the tables mentioned in the copy for the purposes of international search under Section 802(b-quater) together with relevant statement as to the incopy or copies with the tables mentioned in the copy for the purposes of international search under Section 802(b-quater) to the copy or copies with the tables mentioned in the copy for the purposes of international search under Section 802(b-quater) to the copy for the purposes of international search under Section 802(b-quater) to the copy for the purposes of international search under Section 802(b-quater) to the copy for the purpose of international search under Section 802(b-quater) to the copy for the purpose of international search under Section 802(b-quater) to the copy for the purpose of international search under Section 802(b-quater) to the copy for the purpose of international search under Section 802(b-quater) to the copy for the purpose of international search under Section 802(b-quater) to the copy for the purpose of international search under Section 802(b-quater) to the copy for the purpose of international search under Section 802(b-quater) to the copy for the purpose of in	;, where ; identity stings ; quence) ational and not ; marked g, where quater) identity of the in left column ;				
Figure of the drawings which should accompany the abstract: Language of filing of the international application: German Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE						
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request). A. Muth (AV 41643) For receiving Office use only						
1. Date of actual receipt of the purported						
international application: 08 January 2003 3. Corrected date of actual receipt due to later but		2. Drawings:				
timely received papers or drawings completing the purported international application:		received:				
4. Date of timely receipt of the required corrections under PCT Article 11(2): 5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid	not received:				
For International Bureau use only Date of receipt of the record copy						
by the International Bureau:						